

#2

05/01/02

OIPE

RAW SEQUENCE LISTING

DATE: 01/16/2002

PATENT APPLICATION: US/09/996,263

TIME: 18:19:46

Input Set : N:\Crf3\RULE60\09996263.raw

Output Set: N:\CRF3\01162002\I996263.raw

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

5 (i) APPLICANT: Phillip Dan Cook
6 Andrew Kawasaki

8 (ii) TITLE OF INVENTION: Sugar Modified Oligonucleotides

10 (iii) NUMBER OF SEQUENCES: 37

12 (iv) CORRESPONDENCE ADDRESS:

13 (A) ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz and Norris

14 (B) STREET: One Liberty Place - 46th Floor

15 (C) CITY: Philadelphia

16 (D) STATE: PA

17 (E) COUNTRY: U.S.A.

18 (F) ZIP: 19103

20 (v) COMPUTER READABLE FORM:

21 (A) MEDIUM TYPE: 3.5 inch disk, 720 Kb

22 (B) COMPUTER: IBM PC compatible

23 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

24 (D) SOFTWARE: WordPerfect 5.1

26 (vi) CURRENT APPLICATION DATA:

C--> 27 (A) APPLICATION NUMBER: US/09/996,263

C--> 28 (B) FILING DATE: 28-Nov-2001

29 (C) CLASSIFICATION:

31 (vii) PRIOR APPLICATION DATA:

32 (A) APPLICATION NUMBER: 08/471,973

33 (B) FILING DATE:

35 (viii) ATTORNEY/AGENT INFORMATION:

36 (A) NAME: Joseph Lucci

37 (B) REGISTRATION NUMBER: 33,307

38 (C) REFERENCE/DOCKET NUMBER: ISIS-2005

40 (ix) TELECOMMUNICATION INFORMATION:

41 (A) TELEPHONE: 215-568-3100

42 (B) TELEFAX: 215-568-3439

44 (2) INFORMATION FOR SEQ ID NO: 1:

45 (i) SEQUENCE CHARACTERISTICS:

46 (A) LENGTH: 17 bases

47 (B) TYPE: nucleic acid

48 (C) STRANDEDNESS: single

49 (D) TOPOLOGY: linear

50 (iv) ANTI-SENSE: yes

51 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

53 CCACACCGAC GGCGCCC 17

55 (2) INFORMATION FOR SEQ ID NO: 2:

56 (i) SEQUENCE CHARACTERISTICS:

57 (A) LENGTH: 20 bases

58 (B) TYPE: nucleic acid

59 (C) STRANDEDNESS: single

60 (D) TOPOLOGY: linear

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61 (iv) ANTI-SENSE: yes
62 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
64 CTTATATTCC GTCATCGCTC 20
66 (2) INFORMATION FOR SEQ ID NO: 3:
67 (i) SEQUENCE CHARACTERISTICS:
68 (A) LENGTH: 20 bases
69 (B) TYPE: nucleic acid
70 (C) STRANDEDNESS: single
71 (D) TOPOLOGY: linear
72 (iv) ANTI-SENSE: yes
73 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
75 TCCGTCATCG CTCCTCAGGG 20
77 (2) INFORMATION FOR SEQ ID NO: 4:
78 (i) SEQUENCE CHARACTERISTICS:
79 (A) LENGTH: 20 bases
80 (B) TYPE: nucleic acid
81 (C) STRANDEDNESS: single
82 (D) TOPOLOGY: linear
83 (iv) ANTI-SENSE: yes
84 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
86 AAAACGTCAG CCATGGTCCC 20
88 (2) INFORMATION FOR SEQ ID NO: 5:
89 (i) SEQUENCE CHARACTERISTICS:
90 (A) LENGTH: 18 bases
91 (B) TYPE: nucleic acid
92 (C) STRANDEDNESS: single
93 (D) TOPOLOGY: linear
94 (iv) ANTI-SENSE: yes
95 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
97 TTCTCGCTGG TGAGTTTC 18
99 (2) INFORMATION FOR SEQ ID NO: 6:
100 (i) SEQUENCE CHARACTERISTICS:
101 (A) LENGTH: 17 bases
102 (B) TYPE: nucleic acid
103 (C) STRANDEDNESS: single
104 (D) TOPOLOGY: linear
105 (iv) ANTI-SENSE: yes
106 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
108 TCTCGCTGGT GAGTTTC 17
110 (2) INFORMATION FOR SEQ ID NO: 7:
111 (i) SEQUENCE CHARACTERISTICS:
112 (A) LENGTH: 20 bases
113 (B) TYPE: nucleic acid
114 (C) STRANDEDNESS: single
115 (D) TOPOLOGY: linear
116 (iv) ANTI-SENSE: yes
117 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
119 TCCCGCCTGT GACATGCATT 20
121 (2) INFORMATION FOR SEQ ID NO: 8:

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122      (i) SEQUENCE CHARACTERISTICS:
123          (A) LENGTH: 20 bases
124          (B) TYPE: nucleic acid
125          (C) STRANDEDNESS: single
126          (D) TOPOLOGY: linear
127      (iv) ANTI-SENSE: yes
128      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
130 TCCTCCTCCC CGCGCGGGT      20
132 (2) INFORMATION FOR SEQ ID NO: 9:
133      (i) SEQUENCE CHARACTERISTICS:
134          (A) LENGTH: 20 bases
135          (B) TYPE: nucleic acid
136          (C) STRANDEDNESS: single
137          (D) TOPOLOGY: linear
138      (iv) ANTI-SENSE: yes
139      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
141 CTCGCCCCGT CCTCCTCCCC      20
143 (2) INFORMATION FOR SEQ ID NO: 10:
144      (i) SEQUENCE CHARACTERISTICS:
145          (A) LENGTH: 20 bases
146          (B) TYPE: nucleic acid
147          (C) STRANDEDNESS: single
148          (D) TOPOLOGY: linear
149      (iv) ANTI-SENSE: yes
150      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
152 TTCTCGCCCG CTCCTCCTCC      20
154 (2) INFORMATION FOR SEQ ID NO: 11:
155      (i) SEQUENCE CHARACTERISTICS:
156          (A) LENGTH: 20 bases
157          (B) TYPE: nucleic acid
158          (C) STRANDEDNESS: single
159          (D) TOPOLOGY: linear
160      (iv) ANTI-SENSE: yes
161      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
163 TTCTCCTCCT CCCCTGGCAG      20
165 (2) INFORMATION FOR SEQ ID NO: 12:
166      (i) SEQUENCE CHARACTERISTICS:
167          (A) LENGTH: 20 bases
168          (B) TYPE: nucleic acid
169          (C) STRANDEDNESS: single
170          (D) TOPOLOGY: linear
171      (iv) ANTI-SENSE: yes
172      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
174 CTGGCTTCTC CTCCTCCCCCT      20
176 (2) INFORMATION FOR SEQ ID NO: 13:
177      (i) SEQUENCE CHARACTERISTICS:
178          (A) LENGTH: 20 bases
179          (B) TYPE: nucleic acid
180          (C) STRANDEDNESS: single
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181         (D) TOPOLOGY: linear
182     (iv) ANTI-SENSE: yes
183     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
185 CCTGCTGGCT TCTCCTCCTC      20
187 (2) INFORMATION FOR SEQ ID NO: 14:
188     (i) SEQUENCE CHARACTERISTICS:
189         (A) LENGTH: 20 bases
190         (B) TYPE: nucleic acid
191         (C) STRANDEDNESS: single
192         (D) TOPOLOGY: linear
193     (iv) ANTI-SENSE: yes
194     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
196 TCTGGCGCTG CACCACTCTC      20
198 (2) INFORMATION FOR SEQ ID NO: 15:
199     (i) SEQUENCE CHARACTERISTICS:
200         (A) LENGTH: 20 bases
201         (B) TYPE: nucleic acid
202         (C) STRANDEDNESS: single
203         (D) TOPOLOGY: linear
204     (iv) ANTI-SENSE: yes
205     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
207 UAGGAGAUGC CUAAGGCUUU      20
209 (2) INFORMATION FOR SEQ ID NO: 16:
210     (i) SEQUENCE CHARACTERISTICS:
211         (A) LENGTH: 20 bases
212         (B) TYPE: nucleic acid
213         (C) STRANDEDNESS: single
214         (D) TOPOLOGY: linear
215     (iv) ANTI-SENSE: yes
216     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
218 GCUAUGUCGA CACCCAAUUC      20
220 (2) INFORMATION FOR SEQ ID NO: 17:
221     (i) SEQUENCE CHARACTERISTICS:
222         (A) LENGTH: 20 bases
223         (B) TYPE: nucleic acid
224         (C) STRANDEDNESS: single
225         (D) TOPOLOGY: linear
226     (iv) ANTI-SENSE: yes
227     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
229 CAUAGGAGAU GCCUAAGGCT      20
231 (2) INFORMATION FOR SEQ ID NO: 18:
232     (i) SEQUENCE CHARACTERISTICS:
233         (A) LENGTH: 21 bases
234         (B) TYPE: nucleic acid
235         (C) STRANDEDNESS: single
236         (D) TOPOLOGY: linear
237     (iv) ANTI-SENSE: yes
238     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
240 GCGUUTGCTC TTCTTCUUGC G      21

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242 (2) INFORMATION FOR SEQ ID NO: 19:
243     (i) SEQUENCE CHARACTERISTICS:
244         (A) LENGTH: 21 bases
245         (B) TYPE: nucleic acid
246         (C) STRANDEDNESS: single
247         (D) TOPOLOGY: linear
248     (iv) ANTI-SENSE: yes
249     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
251 GCGUUUGCTC TTCTUCUUGC G      21
253 (2) INFORMATION FOR SEQ ID NO: 20:
254     (i) SEQUENCE CHARACTERISTICS:
255         (A) LENGTH: 20 bases
256         (B) TYPE: nucleic acid
257         (C) STRANDEDNESS: single
258         (D) TOPOLOGY: linear
259     (iv) ANTI-SENSE: yes
260     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
262 UGCATCCCCC AGGCCACCAT      20
264 (2) INFORMATION FOR SEQ ID NO: 21:
265     (i) SEQUENCE CHARACTERISTICS:
266         (A) LENGTH: 15 bases
267         (B) TYPE: nucleic acid
268         (C) STRANDEDNESS: single
269         (D) TOPOLOGY: linear
270     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:
271 CGACTATGCA AGTAC      15
273 (2) INFORMATION FOR SEQ ID NO: 22:
274     (i) SEQUENCE CHARACTERISTICS:
275         (A) LENGTH: 17 bases
276         (B) TYPE: nucleic acid
277         (C) STRANDEDNESS: single
278         (D) TOPOLOGY: linear
279     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:
281 CTCGTACCTT CCGGTCC      17
283 (2) INFORMATION FOR SEQ ID NO: 23:
284     (i) SEQUENCE CHARACTERISTICS:
285         (A) LENGTH: 12 bases
286         (B) TYPE: nucleic acid
287         (C) STRANDEDNESS: single
288         (D) TOPOLOGY: linear
289     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:
291 GAGCUCCAG GC      12
293 (2) INFORMATION FOR SEQ ID NO: 24:
294     (i) SEQUENCE CHARACTERISTICS:
295         (A) LENGTH: 15 bases
296         (B) TYPE: nucleic acid
297         (C) STRANDEDNESS: single
298         (D) TOPOLOGY: linear
299     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

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VERIFICATION SUMMARY

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Input Set : N:\Crf3\RULE60\09996263.raw

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L:27 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:28 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]